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DATE MAILED: 04/02/2008

# NOTICE OF ALLOWANCE AND FEE(S) DUE

25269 7590 04/02/2008 DYKEMA GOSSETT PLLC

FRANKLIN SQUARE, THIRD FLOOR WEST 1300 I STREET, NW

WASHINGTON, DC 20005

EXAMINER

NATHITHITHADHA, NAVIN

ART UNIT PAPER NUMBER

1715

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/551.189	09/29/2005	Falko Skrabal	66376-365-7	1869	

TITLE OF INVENTION: DEVICE AND METHOD FOR THE CONTINUOUS NON-INVASIVE MEASUREMENT OF BLOOD PRESSURE

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	YES	\$720	\$300	\$0	\$1020	07/02/2008

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 1SI. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

#### PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

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CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)					Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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APPLICATION NO.	FILING DATE		FIRST NAMED INVEN		NTOR ATT		ATTO	FORNEY DOCKET NO.		FIRMATION NO.
10/551,189 TITLE OF INVENTION	09/29/2005 : DEVICE AND METH	OD FOR T	HE CONTINU	Falko Skrabal JOUS NON-INVASIV	ЕМ	EASUREMENT (		66376-365-7 OOD PRESSURE		1869
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nonprovisional	YES	5	720	\$300		\$0		\$1020		07/02/2008
EXAM	INER	AR'	I UNIT	CLASS-SUBCLASS						
NATNITHITHADHA, NAVIN			3735	600-490000						
"Fee Address" ind. PTO/SB/47; Rev 03-0 Number is required.  3. ASSIGNEE NAME A	ondence address (or Cha 3/122) attached. ication (or "Fee Address 12 or more recent) attach ND RESIDENCE DATZ less an assignee is ident h in 37 CFR 3.II. Comp	nge of Corr 'Indication ed. Use of	respondence  form  a Customer  RINTED ON		native native or ag attorn be p	3 registered patent ely, firm (having as a gent) and the name neys or agents. If a rrinted.	memb es of up to nam	er a 2		nt has been filed for
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	s SMALL ENTITY state	is. See 37 C		☐ b. Applicant is no						
NOTE: The Issue Fee and interest as shown by the	d Publication Fee (if req records of the United Sta	aired) will a tes Patent a	not be accepted and Trademark	d from anyone other that Office.	an th	e applicant; a regi	stered a	attorney or agent; or th	e assig	nee or other party in
Authorized Signature						Date				
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# UNITED STATES PATENT AND TRADEMARK OFFICE

#### UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS

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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/551,189		09/29/2005	Falko Skrabal	66376-365-7	1869	
25269	7590	04/02/2008		EXAMINER		
DYKEMA GO	SSETT	PLLC	NATNITHITHADHA, NAVIN			
FRANKLIN SQUARE, THIRD FLOOR WEST				ART UNIT	PAPER NUMBER	
1300 I STREET, NW WASHINGTON DC 20005				3735		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 93 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 93 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)			
10/551,189	SKRABAL ET AL.			
Examiner	Art Unit			
NAVIN NATNITHITHADHA	3735			

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence addressAll claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to 20 March 2008.
- The allowed claim(s) is/are 27,28 and 31-33.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. T Certified copies of the priority documents have been received.
    - Certified copies of the priority documents have been received in Application No.
      - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) Inhereto or 2) In to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

 DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

#### Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3. Information Disclosure Statements (PTO/SB/08),
- Paper No./Mail Date \_\_\_\_\_\_

  4. Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. ☐ Other .

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# EXAMINER'S AMENDMENT

 An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard H. Tushin on 28 March 2008.

The application has been amended as follows:

Please Amend the Abstract as follows (next page):

Application/Control Number: 10/551,189

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## ABSTRACT OF THE DISCLOSURE

A method and device for the continuous non-invasive measurement of blood pressure includes at least one first pressure cuff and one second pressure cuff of a comparable or identical size, each cuff including. The cuffs respectively include an inflatable pressure measuring chamber and can be applied applicable to a first and a second body part or body region respectively containing an artery of a comparable or identical size. The first pressure cuff has a first plethysmographic sensor device connected to a regulating and control device used to regulate the pressure in a first pressure measuring chamber by means of the a measuring signal of the plethysmographic sensor-device. The first pressure measuring chamber is connected to at least one pressure sensor in order to obtain a pressure measuring signal. The second pressure measuring chamber of the second pressure cuff is a reference pressure chamber that can be regulated at the same time as the first pressure measuring chamber, and independently therefrom. The pressure measuring chamber of the first pressure cuff and the reference pressure chamber of the second pressure cuff both have separate inlet waves and outer valves, and the pressure in the reference pressure chamber can be regulated by means of the regulating and control device according to a pre-determinable pressure function.

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### REASONS FOR ALLOWANCE

The status of the claims is as follows:

Claims 27, 28, and 31-33 are currently amended:

Claims 1-26, 29, 30, and 34-40 have been cancelled; and

Claims 27, 28, and 31-33 are pending.

- The objection to the Oath or Declaration is WITHDRAWN in view of the new Oath/Declaration, filed on 20 March 2008.
- The objections to Specification are WITHDRAWN in view of the Amendment, filed on 20 March 2008.
- 5. The objection to the abstract of the disclosure is WITHDRAWN in view of the amended Abstract above. Applicant's amended Abstract, filed on 20 March 2008, exceeded 150 words. The amended Abstract, by Examiner's Amendment, above is within the 150 word limit.
- The objection to claim 27 is WITHDRAWN in view of the Amendment, filed on 20
   March 2008.
- The 35 U.S.C. 112, second paragraph, rejections to claims 35 and 37-40 are moot in view of the cancellation of the claims in Amendment, filed on 20 March 2008.
- The rejections of claims 35, 37, and 39 under 35 U.S.C. 102(b) as being anticipated by Simons, U.S. Patent No. 5,152,296 A ("Simmons"), are moot in view of the cancellation of the claims in Amendment, filed on 20 March 2008.

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The rejection of claim 38 under 35 U.S.C. 103(a) as being unpatentable over
 Simons in view of Goor et al, U.S. Patent No. 6,322,515 B1 ("Goor"), are moot in view of the cancellation of the claims in Amendment, filed on 20 March 2008.

- 10. Claims 30-33 were indicated as allowable in the previous Office Action, filed on 20 November 2007. In the Amendment, filed on 20 March 2008, Applicant has amended claim 27 to include the subject matter in previously presented claim 30, and thus, placing the subject matter of claim 30 in independent form. In addition, Applicant has amended claims 31-33 to include the subject matter of previous presented claim 27, and thus, placing the subject matter of claims 31-33 in independent form. Claim 28 was amended to be a multiple dependent claim that is dependent on claims 27 and 31-33.
- 11. Claims 27, 28, and 31-33 are allowed.
- 12. The following is an examiner's statement of reasons for allowance:

Claims 27 and 28: The prior art of record does not teach a method for the continuous, non-invasive measurement of blood pressure based on the principle of the unloaded arterial wall, including the step of: controlling the pressure in the reference pressure chamber in accordance with the preselectable pressure function and simultaneously with the help of the plethysmographically obtained reference signal in such a way that the amplitude of the reference signal is minimized while a reference pressure signal is measured, and analyzing the reference pressure signal, measured at various preselectable pressure values of the pressure function, compared to predetermined ideal pulse curves, and when the deviation from a given pulse curve is at a minimum determining the setpoint for the pressure measuring signal therefrom.

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Claims 31 and 28: The prior art of record does not teach a method for the continuous, non-invasive measurement of blood pressure based on the principle of the unloaded arterial wall, including the step of: inferring a physiological or pathological change of the pressure measuring signal from a change of the mean pressure and/or the amplitude of the pressure measuring signal and a shift of the amplitude maximum of the reference signal or the reference pressure signal in the same direction.

Claims 32 and 28: The prior art of record does not teach a method for the continuous, non-invasive measurement of blood pressure based on the principle of the unloaded arterial wall, including the step of: inferring a loss of setpoint of the pressure signal from a change of the mean pressure and/or the amplitude of the pressure measuring signal and an absent or oppositely directed shift of the amplitude maximum of the reference signal or the reference pressure signal.

<u>Claims 33 and 28</u>: The prior art of record does not teach a method for the continuous, non-invasive measurement of blood pressure based on the principle of the unloaded arterial wall, including the step of: wherein at preselectable time intervals or triggered by loss of setpoint the reference pressure chamber is operated as pressure measuring chamber and the pressure measuring chamber as reference pressure chamber.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to NAVIN NATNITHITHADHA whose telephone number is (571)272-4732. The examiner can normally be reached on Monday-Friday, 9:00 am - 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Charles Marmor, II can be reached on (571) 272-4730. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Charles A. Marmor, II/ Supervisory Patent Examiner Art Unit 3735

/N. N./ Patent Examiner, Art Unit 3735 03/28/2008 Art Unit: 3735